

MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF GEOLOGY AND LAND SURVEY (573) 368-2165

CLOSED LOOP HEAT PUMP

OFFICE USE ONLY	DATE RECEIVED							
REF. NO.								
C.R. NO.	CHECK NO.							
STATE WELL NUMBER	TRANSMITTAL NO.							
ENTERED	APPROVED BY ROUTE							

	CERTIF	FICA	TION RE	CORD		EN'	TERED	Ph2	Ph3		APP	ROVED BY			ROUT	E /	
INFORM <i>A</i>	ATION SUP	PLIED	BY PRIM	ARY CON	TRACT					R				/		/	
OWNER NAMI	E								TELEPI	HONE					VARIANC D.N.R.	E GRANTED BY TH	HE
OUNTE ADDITO					CITY	OTT			T T		710.00	NDE .		□ NO			
OWNER ADDRESS				CITY	CITY			SIAI	STATE ZIP CC		DE.			, ATTACH A COPY VARIANCE	OF		
ADDRESS OF	WELL SITE (IF D	IFFERE	NT THAN ABOV	/E)		CITY	CITY			STAT	TE ZIP CODE						
PROPOSED U ☐ HEAT PUN	JSE OF WELL MP WELL			OTHER			INFORMATION VERIFIED BY OWNER SIGNATURE (WELL OWNER)									DATE	
☐ HEAT PUMP TRENCH (ONLY > 10 FT) ☐ HEAT PUMP PIT (ONLY > 10 FT)																	
SKETCH THE LOCATION TO THE WELL INCLUDING MILEAGE ON ALL ROADS TRAVELED F NEAREST TOWN OR HIGHWAYS						TRAVELED FF	ROM	LOCATION OF WELL						AREA			
									LAT		°			-"	ELEV		_
								LONG °						.	COLINI	-v	
									20110					-	COUNTY		
												SMALLES		'	LARGES		
										050			4				
										SEU		I VVIN.		N K	NG	E OR W	
DESCRIBE LO	OCATION OF THE	WELL S	O WE WOULD	BE ABLE TO VI	SIT THE W	ELL SITE		DRILLER N	OTES:								
INFORM <i>A</i>	ATION FOR	CLOS	SED LOOP	MATERIA	۱ <u>L</u>			INFORMATION FOR HEAT PUMP WELLS									
TYPE OF HEAT TRANSFER FLUID USED HEAT PUMP TOTAL TON RATING USED:				METER OF PIPI D:	E NUME	NUMBER OF HOLES DRILLED DIAMETER OF DRILL HOLES					≣S	DEPTH O	F DRILL HOLES				
TOTAL AMOUN	IT OF PIPE USED:	PIPE MA	ATERIAL					TYPE OF GROUT USED BENTONITE SLURRY								ARE THE WELLS CONSTRUCTED THE SAME?	
				POLYETHYL		COPPER	NC	NTONITE	NTONITE		☐ GRAVITY			□YES			
WAS LOOP MA	ATERIAL MECHANI NO	CALLY CO	ONNECTED?	WAS LOOP MA		YES □ NO	□ PE	☐ PELLETS ☐ CHIPS ☐ GRANULA				AR LITREMIE				ACH DIFFERENCES TRUCTION	
WAS PERMANI ☐ YES ☐ N	ENT CASING INST	ALLED?		WAS FILL MAT		ORINATED?		ION ON GROU' JLL LENGTH	ΓSEAL		POUNDS PER BAG				STATIC WATER LEVEL		
	LENGTH		IETER OF	MATERIAL	CA	ASING DRIVEN		RIES OF 5 FT.	PLUGS			DEPTH		<u> </u>		DESCRIPTIO	
CASING	FT	CASING		IN. D STEEL		lyes Ino	IF FUL	L LENGTH, TO	TAL NUMBER		FR	OM TO) [FORMATION DESCRIPT			/IN
DETAILS	WEIGHT OR	DIAM	IETER OF	PACKER USE	ON PVC C	CASING		OF BAGS USED									
SDR# DRILL HOLE			L HOLE			RUBBER BO INVERTED B				JMBER	1						
						OF SACKS	WEDE	WERE BENTONITE PLUGS			-						
CEMENT BENTONITE USED						HYDRATED AFTER EMPLACEMENT?											
CASING	☐ HI-EARLY	☐ SLURRY ☐ GRANULAR (☐ CHIPS ☐ PELLETS SACK				2	☐ YES ☐ NO DEPTH TO TOP AND BOTTOM OF										
DETAILS METHOD OF INSTALLATION DRILLING SUSF				SUSPENDED	NEAR	SURFACE PLU ORIGINAL GRO	CE PLUG (MEASURED										
				□NO	SURFACE)												
	TREMIE	GROUT	_	UGH CASING		HRS.		TTOM			ı						
INFORMATION FOR HEAT PUMP TRENCH OR PIT						EPTH TO TOP (1								
CONSTRUCTED DEPTH: FT.						1		FT		ĺ							
CONSTRUCTED LENGTH:										L							
PRIMARY CONTRACTOR'S NAME PERMIT NUMBER									то	TAL DE	PTH:						
					4 5	WAS COMPLETED COM					DATE WE	WELL DRILLING WAS PLETED					
		HEAT PU	IMP HEREIN DE	SCRIBED WAS	CONSTRU	JCTED IN ACC	CORDANCE	WITH THE DE	PARTME	ENT OF N	NATUR	AL RESOU	RCES REQ	UIREME	ENTS FOR	THE CONSTRUCT	ΓΙΟΝ
OF HEAT PUMP WELLS. SIGNATURE (WELL DRILLER) PERMIT NUMBER DATE				DATE	SIGI	SIGNATURE (HEAT PUMP INSTALLER) PERMIT NUMBER D.					DATE						
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